*Mining data using Twitter*

To mine data using Twitter API, use the following Twitter API Tutorial <http://socialmedia-class.org/twittertutorial.html> or any other tutorial that you can find online.

In general, there are five steps in using Twitter API:

* Get Twitter API Keys
* Install Twitter Library
* Connect to Twitter Streaming APIs
* Read and Process Tweets in JSON format and
* Perform Twitter Search API, Trend API and User API

Once you are familiar with the above steps, perform the following functions using some key search term in the following table:

|  |  |
| --- | --- |
| **General Search Term** | **Specific Search Term** |
| Outbreak  Infection  Flu  Fever  Virus  Epidemic  Infectious  Illness  Bacteria  Emerging  Unknown virus  Myster(ious)y disease | Zika  MERS  Salmonella  Legionnaire  Measles  Influenza  Category A Agents:  *Anthrax*  *Botulism*  *Plague*  *Smallpox and other related pox viruses*  *Tularemia*  *Junin Fever*  *Machupo Fever*  *Guanarito Fever*  *Chapare Fever*  *Lassa Fever*  *Lujo Fever*  *Hantavirus*  *Rift Valley Fever*  *Crimean Congo Hemorrhagic Fever*  *Dengue*  *Ebola*  *Marburg* |

* Search latest tweets of one key search term above (eg. Outbreak)
* Get the times of the searched terms performed before.
* Get the locations of the searched term performed before.
* Find if the searched term used before is trending in any given location.

Guideline to Get Twitter APIs Keys

1. Create a Twitter developer account if you do not already have one from : <https://developer.twitter.com/> it would takes 2-3 days to get approval from Twitter (Don’t do last minutes).
2. Go to <https://developer.twitter.com/en/apps> and log in with your Twitter user account.



1. Click “Create an app”

|  |  |
| --- | --- |
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1. Fill out the form, and click “Create”
2. A pop up window will appear for reviewing Developer Terms. Upon Approval click the “Create” button again.



1. In the next page, click on “Keys and Access Tokens” tab, and copy your “API key” and “API secret” from the Consumer API keys section.



1. Scroll down to Access token & access token secret section and click “Create”. Then copy your “Access token” and “Access token secret”.



1. Continue to installing twitter library and create access to Twitter Streaming APIs. Use any available online tutorial (eg. <http://socialmedia-class.org/twittertutorial.html>) on how to use twitter for datamining online.